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STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C
C/O JORGE A. GOLDSTEIN
1100 NEW YORK AVENUE, N.W., SUITE 600
WASHINGTON, D.C. 20005



101001814A

**UNITED STATES PATENT AND TRADEMARK OFFICE
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THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/02/1999

REEL/FRAME: 9859/0371
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

PANTOLIANO, MICHAEL W.

DOC DATE: 03/26/1999

ASSIGNOR:

SALEMME; F. RAYMOND

DOC DATE: 02/22/1999

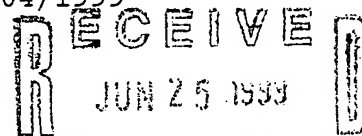
ASSIGNOR:

CARVER, THEODORE E. JR.

DOC DATE: 02/04/1999

ASSIGNEE:

3-DIMENSIONAL PHARMACEUTICALS INC.
EAGLEVIEW CORPORATE CENTER
665 STOCKTON DRIVE, SUITE 104
EXTON, PENNSYLVANIA 19341



STERNE, KESSLER, GOLDSTEIN & FOX PLLC
PP
Ger

SERIAL NUMBER: 09190128
PATENT NUMBER:

FILING DATE: 11/12/1998
ISSUE DATE: *GER*

Ger 7/2/99

9859/0371 PAGE 2

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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04-06-1999

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U.S. Department of Commerce
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy the following information.

Name of conveying party(ies):

- a) Michael W. PANTOLIANO;
b) F. Raymond SALEMME; and
c) Theodore E. CARVER, Jr.

Additional name(s) of conveying party(ies) attached? ☐ yes ☒ no

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date(s): a) 03/26/99; b) 02/22/99; and
c) 02/04/99, respectively

2. Name and address of receiving party(ies):

Name: 3-Dimensional Pharmaceuticals, Inc.

Street Address: Eagleview Corporate Center
665 Stockton Drive, Suite 104

City: Exton State: PA Zip Code: 19341

Country: United States

Additional name(s) & address(es) attached? ☐ yes ☒ no

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is

A. Patent Application No(s).

09/190,128; Filed: 11/12/98

B. Patent No(s).

Additional numbers attached? ☐ yes ☒ no

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.

Internal Address: c/o Jorge A. Goldstein
1100 New York Avenue, N.W., Suite 600
Washington, D.C. 20005

Street Address: 1100 New York Ave., N.W.
Suite 600

City: Washington State: D.C. Zip Code: 20005-3934

6. Total number of applications and patents involved

1

7. Total fee (37 C.F.R. § 3.41).....\$ 40.00

☒ Enclosed☐ Authorized to be charged to Deposit Account

8. Deposit Account Number: 19-0036

04/06/1999 DMOYEN 00000078 09190128

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and the attached document is the original document.

Grant E. Reed

Name of Person Signing

Registration No. 41,264

Signature

Date

Total number of pages including cover sheet, attachments and document 3

OMB NO. 0651-0011 (exp. 4/94)

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box Assignments
Washington, D.C. 20231

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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: **1) Michael W. PANTOLIANO; 2) F. Raymond SALEMME; and 3) Theodore E. CARVER, Jr.**, each of the undersigned inventors hereby sell and assign to **3-Dimensional Pharmaceuticals, Inc.** (the Assignee) his entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention(s) known as **High Throughput Method For Functionally Classifying Proteins Identified Using A Genomics Approach** for which application(s) for patent in the United States of America has (have) been executed by the undersigned on **1) March 26, 1999** **2) Feb 22, 1999** ; and **3) Feb 4, 1999** (also known as United States Application No. **09/190,128**, filed **November 12, 1998**), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignors had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the applications and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

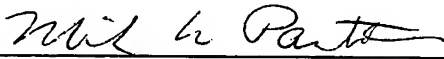
The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.


Each of the undersigned inventors hereby represent that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict therewith.

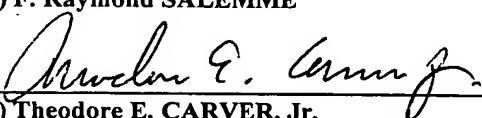
The undersigned inventors hereby grant Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala,

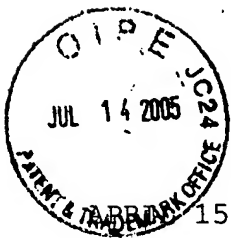
Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; and Michael Q. Lee, Esquire, Registration No. 35,239, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by each of the undersigned inventors on the date opposite his name.

Date: 3/26/99 Signature of Inventor: 
1) Michael W. PANTOLIANO

Date: 2.22.99 Signature of Inventor: 
2) F. Raymond SALEMME

Date: 2-4-99 Signature of Inventor: 
3) Theodore E. CARVER, Jr.



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APR 15, 1998

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WASHINGTON, DC 20005-3934

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RECORDATION DATE: 02/03/1998

REEL/FRAME: 8978/0050

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

PANTOLIANO, MICHAEL W.

DOC DATE: 11/24/1997

ASSIGNOR:

PETRELLA, EUGENIO C.

DOC DATE: 12/10/1997

ASSIGNOR:

RHIND, ALEXANDER W.

DOC DATE: 12/23/1997

ASSIGNOR:

SALEMME, FRANCIS R.

DOC DATE: 11/24/1997

ASSIGNOR:

SPRINGER, BARRY A.

DOC DATE: 11/24/1997

ASSIGNEE:

3-DIMENSIONAL PHARMACEUTICALS, INC.
665 STOCKTON DRIVE
EAGLEVIEW CORPORATE CENTER, SUITE 104
EXTON, PENNSYLVANIA 19341

• 8978/0050 PAGE 2

SERIAL NUMBER: 08853464
PATENT NUMBER:

FILING DATE: 05/09/1997
ISSUE DATE:

PEARLENE FOSTER, EXAMINER
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1. Name of conveying party(ies):

Michael W. PANTOLIANO
Eugenio C. PETRELLA
Alexander W. RHIND
Francis R. SALEMME
Barry A. SPRINGERAdditional name(s) of conveying party(ies) attached? ☐ yes
☒ no

3. Nature of Conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ OtherExecution Date(s): November 24, 1997, December 10,
1997, and December 23, 1997.

2. Name and address of receiving party(ies):

Name: 3-Dimensional Pharmaceuticals, Inc.

Street Address: Eagleview Corporate Center
665 Stockton Drive, Suite 104

City: Exton State: PA Zip Code: 19341

Country: United States of America

Additional name(s) & address(es) attached? ☐ yes ☒ no

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is

A. Patent Application No(s).
08/853,464

B. Patent No(s).

Additional numbers attached? ☐ yes ☒ no5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.

Internal Address: c/o

Street Address: 1100 New York Ave., N.W.
Suite 600

City: Washington State: D.C. Zip Code: 20005-3934

6. Total number of applications and patents involved

1

7. Total fee (37 C.F.R. § 3.41).....\$ 40.00

☒ Enclosed Check No. 21046☐ Authorized to be charged to Deposit Account

8. Deposit Account Number: 19-0036

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true
copy of the original document.*Jorge A. GoldsteinName of Person Signing
Registration No.

Signature

Date

2/3/98

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01 FC:581 40.00 OP

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned: 1) Michael W. PANTOLIANO, 2) Eugenio C. PETRELLA, 3) Alexander W. RHIND, 4) Francis R. SALEMME, and 5) Barry A. SPRINGER, the undersigned hereby sell(s) and assign(s) to 3-Dimensional Pharmaceuticals, Inc. (the Assignee) his/her entire right, title and interest

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

in the invention(s) known as Microplate Thermal Shift Assay for Ligand Development and Multi-Variable Protein Chemistry Optimization for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 1) 11/24/97 ; 2) 12/10/97 ; 3) 12/23/97 ; 4) 11/24/97 ; 5) 11/24/97 (also known as United States Application No. 08/853,464, filed May 9, 1997), in any and all applications thereon, in any and all Letters Patent(s) therefor, and in any and all reissues, extensions, renewals, reexaminations of such applications or Letters Patent(s) and divisional and continuation applications thereof, to the full end of the term or terms for which such Letters Patent(s) issue, including the right to collect for all past, present and future damages, such entire right, title and interest to be held and enjoyed by the above-named Assignee to the same extent as they would have been held and enjoyed by the undersigned had this assignment and sale not been made.

The undersigned agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference that may be declared concerning the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned hereby represents that the undersigned has full right to convey the entire interest herein assigned, and that the undersigned has not executed, and will not execute, any agreement in conflict therewith.

The undersigned hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; and Eric K. Steffe, Esquire, Registration No. 36,688, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite their name(s).

Date: 11/24/97 Signature of Inventor: Michael W. Pantoliano
1) Michael W. PANTOLIANO
Date: 12-10-97 Signature of Inventor: Eugenio C. Petrella
2) Eugenio C. PETRELLA
Date: 12/23/97 Signature of Inventor: Alexander W. Rhind
3) Alexander W. RHIND
Date: 11.24.97 Signature of Inventor: Francis R. Salemme
4) Francis R. SALEMME
Date: 11/24/97 Signature of Inventor: Barry A. Springer
5) Barry A. SPRINGER